

## Liverpool John Moores University

Title: STRUCTURAL AND FUNCTIONAL BIOCHEMISTRY  
Status: Definitive  
Code: **5104BCBMOL** (122490)  
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
Andrew Powell	Y
Kehinde Ross	

**Academic Level:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 54  
**Total Learning Hours:** 200      **Private Study:** 146

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	37
Practical	9
Workshop	6

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Data/literature analysis	50	
Exam	AS2	Exam	50	2

### Aims

*To develop a deeper understanding of structural and functional aspects of macromolecules, particularly proteins, in biology.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse and summarise information from research papers and/or practicals
- 2 Explain in depth important aspects of the structure and function of macromolecules

### **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Data/literature analysis	1
Examination	2

### **Outline Syllabus**

*Protein purification & analysis*  
*Glycan diversity, purification & analysis*  
*Mechanisms of cell signalling*  
*Protein & enzyme regulation*

### **Learning Activities**

Lectures, workshops, practicals

### **Notes**

The module provides a detailed view of aspects of the structure and function of macromolecules and relationships between the two. Mathematical procedures and chemical formulae are used by not extensively. Students will gain skills in analysing experimental data and comprehending primary literature.